

*If you are using a printed copy of this procedure, and not the on-screen version, then you **MUST** make sure the dates at the bottom of the printed copy and the on-screen version match.*

The on-screen version of the Collider-Accelerator Department Procedure is the Official Version. Hard copies of all signed, official, C-A Operating Procedures are kept on file in the C-A ESHQ Training Office, Bldg. 911A

C-A OPERATIONS PROCEDURES MANUAL

ATTACHMENT

4.120.42.f Switch Yard Chipmunk Tests

C-A-OPM Procedures in which this Attachment is used.		
4.120.42		

Hand Processed Changes

<u>HPC No.</u>	<u>Date</u>	<u>Page Nos.</u>	<u>Initials</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Approved: Signature on File _____
Collider-Accelerator Department Chairman Date

V. Castillo

4.120.42.f Switch Yard Chipmunk Tests

PASS ANNUAL ACCEPTANCE TEST PROTOCOL

Division A Software Filename and Checksum: Title: _____ Checksum: _____

Division B Software Filename and Checksum: Title: _____ Checksum: _____

Initial testing complete:

Test Team Leader's Name (Print): _____ Life Number: _____

Test Team Leader's Name (Sign): _____ Date: ____/____/____

Acceptance test procedure complete (following repairs and retesting if required):

Test Team Leader's Name (Print): _____ Life Number: _____

Test Team Leader's Name (Sign): _____ Date: ____/____/____

Test results reviewed by:

Safety Section Head's Name (Print): _____ Life Number: _____

Safety Section Head's Name (Sign): _____ Date: ____/____/____

Test results accepted by Radiation Safety Committee:

RSC Member's Name (Print): _____ Life Number: _____

RSC Member's Name (Sign): _____ Date: ____/____/____

1.1 Test of Chipmunk NMO 95 located at A-Target U/S Headwall

- | | | | |
|--------------------------|--|---|-----------------|
| <input type="checkbox"/> | VERIFY | Chipmunk calibration date [____/____/____] is | VALID |
| <input type="checkbox"/> | VERIFY | Chipmunk is in good physical condition and is | CHIRPING |
| <input type="checkbox"/> | VERIFY | MCR sees Opto monitor Chipmunk NMO 95 | O.K. |
| | | | |
| <input type="checkbox"/> | DISCON | NMO 95 from Security interface box for failsafe test | |
| <input type="checkbox"/> | VERIFY | MCR sees at Opto monitor NMO 95 | IN'LOCK |
| <input type="checkbox"/> | RESET | NMO 95 from MCR Opto monitor | |
| <input type="checkbox"/> | VERIFY | MCR sees NMO 95 | OK |
| | | | |
| <input type="checkbox"/> | PRESS | Trip button on chipmunk NMO 95 | |
| <input type="checkbox"/> | VERIFY | MCR sees at Opto monitor NMO 95 | IN'LOCK |
| <input type="checkbox"/> | RESET | NMO 95 from MCR Opto monitor | |
| <input type="checkbox"/> | VERIFY | MCR sees NMO 95 | OK |
| | | | |
| <input type="checkbox"/> | Check for acceptance of Test Chipmunk NMO 95 located at A-Target U/S Headwall | | |

1.2 Test of Chipmunk NMO 94 located at Swyd D/S gate

- | | | | |
|--------------------------|--|---|-----------------|
| <input type="checkbox"/> | VERIFY | Chipmunk calibration date [____/____/____] is | VALID |
| <input type="checkbox"/> | VERIFY | Chipmunk is in good physical condition and is | CHIRPING |
| <input type="checkbox"/> | VERIFY | MCR sees Opto monitor Chipmunk NMO 94 | O.K. |
| | | | |
| <input type="checkbox"/> | DISCON | NMO 94 from Security interface box for failsafe test | |
| <input type="checkbox"/> | VERIFY | MCR sees at Opto monitor NMO 94 | IN'LOCK |
| <input type="checkbox"/> | RESET | NMO 94 from MCR Opto monitor | |
| <input type="checkbox"/> | VERIFY | MCR sees NMO 94 | OK |
| | | | |
| <input type="checkbox"/> | PRESS | Trip button on chipmunk NMO 94 | |
| <input type="checkbox"/> | VERIFY | MCR sees at Opto monitor NMO 94 | IN'LOCK |
| <input type="checkbox"/> | RESET | NMO 94 from MCR Opto monitor | |
| <input type="checkbox"/> | VERIFY | MCR sees NMO 94 | OK |
| | | | |
| <input type="checkbox"/> | Check for acceptance of Test Chipmunk NMO 94 located at Swyd D/S gate | | |

1.3 Test of Chipmunk NMO 43 located at B Tgt cave head wall

- | | | | |
|--------------------------|---|---|-----------------|
| <input type="checkbox"/> | VERIFY | Chipmunk calibration date [____/____/____] is | VALID |
| <input type="checkbox"/> | VERIFY | Chipmunk is in good physical condition and is | CHIRPING |
| <input type="checkbox"/> | VERIFY | MCR sees Opto monitor Chipmunk NMO 43 | O.K. |
| | | | |
| <input type="checkbox"/> | DISCON | NMO 43 from Security interface box for failsafe test | |
| <input type="checkbox"/> | VERIFY | MCR sees at Opto monitor NMO 43 | IN'LOCK |
| <input type="checkbox"/> | RESET | NMO 43 from MCR Opto monitor | |
| <input type="checkbox"/> | VERIFY | MCR sees NMO 43 | OK |
| | | | |
| <input type="checkbox"/> | PRESS | Trip button on chipmunk NMO 43 | |
| <input type="checkbox"/> | VERIFY | MCR sees at Opto monitor NMO 43 | IN'LOCK |
| <input type="checkbox"/> | RESET | NMO 43 from MCR Opto monitor | |
| <input type="checkbox"/> | VERIFY | MCR sees NMO 43 | OK |
| | | | |
| <input type="checkbox"/> | Check for acceptance of Test Chipmunk NMO 43 located at B Tgt cave head wall | | |

1.4 Test of Chipmunk NMO 79 located at D LineTrench

- | | | | |
|--------------------------|--|---|-----------------|
| <input type="checkbox"/> | VERIFY | Chipmunk calibration date [____/____/____] is | VALID |
| <input type="checkbox"/> | VERIFY | Chipmunk is in good physical condition and is | CHIRPING |
| <input type="checkbox"/> | VERIFY | MCR sees Opto monitor Chipmunk NMO 02 | O.K. |
|
 | | | |
| <input type="checkbox"/> | DISCON | NMO 02 from Security interface box for failsafe test | |
| <input type="checkbox"/> | VERIFY | MCR sees at Opto monitor NMO 02 | IN'LOCK |
| <input type="checkbox"/> | RESET | NMO 02 from MCR Opto monitor | |
| <input type="checkbox"/> | VERIFY | MCR sees NMO 02 | OK |
|
 | | | |
| <input type="checkbox"/> | PRESS | Trip button on chipmunk NMO 02 | |
| <input type="checkbox"/> | VERIFY | MCR sees at Opto monitor NMO 02 | IN'LOCK |
| <input type="checkbox"/> | RESET | NMO 02 from MCR Opto monitor | |
| <input type="checkbox"/> | VERIFY | MCR sees NMO 02 | OK |
|
 | | | |
| <input type="checkbox"/> | Check for acceptance of Test Chipmunk NMO 02 located D LineTrench | | |

1.5 Test of Chipmunk NMO 32 located at Target Bldg No. Catwalk

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|--------------------------|--|---|-----------------|
| <input type="checkbox"/> | VERIFY | Chipmunk calibration date [____/____/____] is | VALID |
| <input type="checkbox"/> | VERIFY | Chipmunk is in good physical condition and is | CHIRPING |
| <input type="checkbox"/> | VERIFY | MCR sees Opto monitor Chipmunk NMO 32 | O.K. |
|
 | | | |
| <input type="checkbox"/> | DISCON | NMO 32 from Security interface box for failsafe test | |
| <input type="checkbox"/> | VERIFY | MCR sees at Opto monitor NMO 32 | IN'LOCK |
| <input type="checkbox"/> | RESET | NMO 32 from MCR Opto monitor | |
| <input type="checkbox"/> | VERIFY | MCR sees NMO 32 | OK |
|
 | | | |
| <input type="checkbox"/> | PRESS | Trip button on chipmunk NMO 32 | |
| <input type="checkbox"/> | VERIFY | MCR sees at Opto monitor NMO 32 | IN'LOCK |
| <input type="checkbox"/> | RESET | NMO 32 from MCR Opto monitor | |
| <input type="checkbox"/> | VERIFY | MCR sees NMO 32 | OK |
|
 | | | |
| <input type="checkbox"/> | Check for acceptance of Test Chipmunk NMO 32 located at Target Bldg No. Catwalk | | |

1.6 Test of Chipmunk NMO 76 located at NW corner Target bldg

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|--------------------------|--|---|-----------------|
| <input type="checkbox"/> | VERIFY | Chipmunk calibration date [____/____/____] is | VALID |
| <input type="checkbox"/> | VERIFY | Chipmunk is in good physical condition and is | CHIRPING |
| <input type="checkbox"/> | VERIFY | MCR sees Opto monitor Chipmunk NMO 76 | O.K. |
| <input type="checkbox"/> | DISCON | NMO 76 from Security interface box for failsafe test | |
| <input type="checkbox"/> | VERIFY | MCR sees at Opto monitor NMO 76 | IN'LOCK |
| <input type="checkbox"/> | RESET | NMO 76 from MCR Opto monitor | |
| <input type="checkbox"/> | VERIFY | MCR sees NMO 76 | OK |
| <input type="checkbox"/> | PRESS | Trip button on chipmunk NMO 76 | |
| <input type="checkbox"/> | VERIFY | MCR sees at Opto monitor NMO 76 | IN'LOCK |
| <input type="checkbox"/> | RESET | NMO 76 from MCR Opto monitor | |
| <input type="checkbox"/> | VERIFY | MCR sees NMO 76 | OK |
| <input type="checkbox"/> | Check for acceptance of Test Chipmunk NMO 76 located at NW corner Target bldg | | |

1.7 Test of Chipmunk NMO 38 located at Trench under stairs to West side of AGS ring

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|--------------------------|---|---|-----------------|
| <input type="checkbox"/> | VERIFY | Chipmunk calibration date [____/____/____] is | VALID |
| <input type="checkbox"/> | VERIFY | Chipmunk is in good physical condition and is | CHIRPING |
| <input type="checkbox"/> | VERIFY | MCR sees Opto monitor Chipmunk NMO 38 | O.K. |
|
 | | | |
| <input type="checkbox"/> | DISCON | NMO 38 from Security interface box for failsafe test | |
| <input type="checkbox"/> | VERIFY | MCR sees at Opto monitor NMO 38 | IN'LOCK |
| <input type="checkbox"/> | RESET | NMO 38 from MCR Opto monitor | |
| <input type="checkbox"/> | VERIFY | MCR sees NMO 38 | OK |
|
 | | | |
| <input type="checkbox"/> | PRESS | Trip button on chipmunk NMO 38 | |
| <input type="checkbox"/> | VERIFY | MCR sees at Opto monitor NMO 38 | IN'LOCK |
| <input type="checkbox"/> | RESET | NMO 38 from MCR Opto monitor | |
| <input type="checkbox"/> | VERIFY | MCR sees NMO 38 | OK |
|
 | | | |
| <input type="checkbox"/> | Check for acceptance of Test Chipmunk NMO 38 located at Trench under stairs to West side of AGS ring | | |

1.8 Test of Chipmunk NMO 01 located at Trench at foot of stairs to West side of AGS ring

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|--------------------------|--|---|-----------------|
| <input type="checkbox"/> | VERIFY | Chipmunk calibration date [____/____/____] is | VALID |
| <input type="checkbox"/> | VERIFY | Chipmunk is in good physical condition and is | CHIRPING |
| <input type="checkbox"/> | VERIFY | MCR sees Opto monitor Chipmunk NMO 01 | O.K. |
|
 | | | |
| <input type="checkbox"/> | DISCON | NMO 01 from Security interface box for failsafe test | |
| <input type="checkbox"/> | VERIFY | MCR sees at Opto monitor NMO 01 | IN'LOCK |
| <input type="checkbox"/> | RESET | NMO 01 from MCR Opto monitor | |
| <input type="checkbox"/> | VERIFY | MCR sees NMO 01 | OK |
|
 | | | |
| <input type="checkbox"/> | PRESS | Trip button on chipmunk NMO 01 | |
| <input type="checkbox"/> | VERIFY | MCR sees at Opto monitor NMO 01 | IN'LOCK |
| <input type="checkbox"/> | RESET | NMO 01 from MCR Opto monitor | |
| <input type="checkbox"/> | VERIFY | MCR sees NMO 01 | OK |
|
 | | | |
| <input type="checkbox"/> | Check for acceptance of Test Chipmunk NMO 01 located at South Shield Door | | |

1.9 Test of Chipmunk NMO 29 located inside Swyd D/S of AD2

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|--------------------------|--|--|---------------------|
| <input type="checkbox"/> | VERIFY | Chipmunk calibration date [____/____/____] is | VALID |
| <input type="checkbox"/> | VERIFY | Chipmunk is in good physical condition and is | CHIRPING |
| <input type="checkbox"/> | VERIFY | MCR sees at > / = 1 count /min increase on | SPREAD SHEET |
|
 | | | |
| <input type="checkbox"/> | DISCONN | BNC Signal cable at NMO 29 | |
| <input type="checkbox"/> | VERIFY | MCR sees at zero count /min increase on | SPREAD SHEET |
|
 | | | |
| <input type="checkbox"/> | CONNECT | BNC Signal cable at NMO 29 | |
| <input type="checkbox"/> | VERIFY | MCR sees at > / = 1 count /min increase on | SPREAD SHEET |
|
 | | | |
| <input type="checkbox"/> | Check for acceptance of Test Chipmunk NMO 29 located inside Swyd D/S of AD2 | | |

1.10 Test of Chipmunk NMO 47 located at Fan House E

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|--------------------------|--|---|---------------------|
| <input type="checkbox"/> | VERIFY | Chipmunk calibration date [____/____/____] is | VALID |
| <input type="checkbox"/> | VERIFY | Chipmunk is in good physical condition and is | CHIRPING |
| <input type="checkbox"/> | VERIFY | MCR sees at > / = 1 count /min on | SPREAD SHEET |
| | DISCONN | BNC Signal cable at NMO 29 | |
| <input type="checkbox"/> | VERIFY | MCR sees at zero count /min increase on | SPREAD SHEET |
| | CONNECT | BNC Signal cable at NMO 29 | |
| <input type="checkbox"/> | VERIFY | MCR sees at > / = 1 count /min increase on | SPREAD SHEET |
| <input type="checkbox"/> | Check for acceptance of Test Chipmunk NMO 47 located at Fan House E | | |

END OF TEST PROCEDURE

TTL: Sign for completion of initial testing: _____

Date: ____/____/____

TTL: Sign for completion of final testing: _____

Date: ____/____/____